

Abstract

Single-sidedly or double-sidedly pressure-sensitively adhesive, elastic adhesive sheet which can be reused more than once and is preferably in the form of diecuts or cut shapes, intended for the redetachment of adhesive bonds without residue or damage, particularly on low-strength substrates such as paper, for example, by peeling and/or extensive stretching of the adhesive sheet,

characterized in that

the adhesive sheet is composed of at least one layer of a pressure-sensitive adhesive, the adhesive sheet further has a maximum stretchability of more than 200% and a recovery of more than 60% after stretching to 2/3 of its maximum elongation, and the pressure-sensitive adhesive (PSA) of the adhesive sheet is based on a chemically crosslinked polyurethane, the starting materials for the chemically crosslinked polyurethane including at least one isocyanate-reactive substance having a functionality of more than 2.0, in a fraction of at least 5% by weight, based on the polyurethane composition, where

the molecular weight of at least one of the starting materials used to form the polyurethane is greater than or equal to 1000,

at least difunctional polyisocyanates are used to form the polyurethane, and

the ratio of maximum tensile stress to stripping stress is more than 1.2, preferably more than 1.5, more preferably more than 2.0, and

the tensile stress at an elongation of 200% is not more than 2.0 N/mm², preferably not more than 1.0 N/mm², more preferably not more than 0.5 N/mm².